

Work Order ID 162460

Tuesday, June 06, 2017 4:57:33 PM

162460

Page 1

Item ID: 646.9502

Accept

N900040100

Setup Start

NS1

Revision ID:

Stop

NS2

Item Name: 206A/B/L-Series Cable Cutter System, Low

Start Date: 6/8/2017 Start Qty: 1.00

1

Cust Item ID:

Required Date: 6/21/2017 Req'd Qty: 1.00

1

Customer:

Reference:

Approvals:

Process Plan:

DAS
21
9-89

Date:

Tooling:

Date:

Run Start

NR1

QC:

Date:

SPC (Y/N):

Date:

Stop

NR2Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run Hours

Tool ID

Tool #

Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

Draw Nbr

Revision Nbr

DAS
6
9-89

AUG 03 2017

646.9500

N/C

100

Document Control

0.00

100

DC

Memo

0.00

Doc.Control -USB or Paperwork

Photocopy bluefile & type labels per PPP 646.9502

DAS
28
9-89

AUG 11 2017

110

Pick Kit

0.00

110

Packaging

Memo

0.00

Packaging

DAS
26
9-89DAS
27
9-89

AUG 04 2017

120

QC4- 100% Inspect kits for completeness

0.00

120

QC

Memo

0.03

Quality Control

DAS
28
9-89

AUG 11 2017

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐				
OTHER : ☐									

Work Order ID 162460

Tuesday, June 06, 2017 4:57:33 PM

162460

Page 2

Item ID: 646.9502 Accept ***N900040100*** Setup Start ***NS1***
Revision ID: Stop ***NS2***
Item Name: 206A/B/L-Series Cable Cutter System, Low
Start Date: 6/8/2017 Start Qty: 1.00 ***1*** Cust Item ID:
Required Date: 6/21/2017 Req'd Qty: 1.00 ***1*** Customer:
Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130 *130* Packaging	Identify as per dwg & Stock Location: _____ Packaging Memo Identify and pack for shipping as per PPP 646.9502 Location :FG101	0.00 0.00					68-6 82 DAS		AUG 1 1 2017
140 *140* QC Quality Control	QC21- Final Inspection - Work Order Release Memo	0.00 0.10					DAS 21 9-89		AUG 1 4 2017

DAS
21
9-89

AUG 1 4 2017

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By	
58 340								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐				
OTHER : ☐									

Picklist Print

Monday, June 05, 2017 4:53:55 PM

Page 264
143

Work Order ID: 162460

162460

Parent Item: 646.9502

646 9502

Parent Item Name: 206A/B/L-Series Cable Cutter System, Low

Start Date: 6/8/2017

Required Date: 6/21/2017

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP REV:A 12.08.28 NEW ISSUE DD VERF:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
---------------------------------	------------------------	---------------	-------------	---------------------	------------------	-----------------	--------------------	----------------	-------------	--------------	---------------	----------------	--------

600.0990
600 0990
Magnabond 6398 Part A Size 112 ml

Purchased

No

110

Each

24.0000

1

1

**

DAS
26
9-89

DAS
27
9-89 AUG 04 2017

DAS
28
9-89 2/01/2018

Location

Loc Qty

Loc Code

PKG

24

M136586

1

M136862

1

M137073

9

M137495

12

M134249

1

1/1/2017

600.0991
600 0991
Magnabond 6398 Part B Size 112 ml

Purchased

No

110

Each

24.0000

1

1

**

DAS
26
9-89

DAS
27
9-89

AUG 04 2017

DAS
28
9-89 2/01/2018

Location

Loc Qty

Loc Code

PKG

24

m136586

2

m136862

1

m137073

9

m137495

12

m134249

0

1/1/2017

Picklist Print

Monday, June 05, 2017 4:53:55 PM

Page 265

Work Order ID: 162460

162460

Parent Item: 646.9502

646 9502

Parent Item Name: 206A/B/L-Series Cable Cutter System, Low

Start Date: 6/8/2017

Required Date: 6/21/2017

Start Qty: 1.00

Required Qty: 1.00

600.1012 Purchased No

110 Each 31.0000 1 1

600 1012

Sealant PR1425B2 (#654 sem)

**

DAS
27
9-89
AUG 04 2017

DAS
26
9-89

Location

Loc Qty

Loc Code

cck017

31

m136838

1

m137321

2

m137371

14

m137699

14

646.9601 Manufactured No

110 Each 5.0000 1 1

646 9601

Upper Cutter Assembly

**

DAS
27
9-89
AUG 04 2017

DAS
26
9-89

Location

Loc Qty

Loc Code

cck039

5

160091

1

4/10/2018

160764

2

2/11/2019

160763

2

2/16/2019

646.9603 Manufactured No

110 Each 4.0000 1 1

646 9603

Lower Cutter Assembly Low

**

DAS
27
9-89

AUG 04 2017

DAS
26
9-89

Location

Loc Qty

Loc Code

CCK036

4

160092

4

5/10/2018

646.9810 Manufactured No

110 Each 2.0000 1 1

646 9810

Deflector

**

DAS
27
9-89
AUG 04 2017

DAS
26
9-89

Location

Loc Qty

Loc Code

CCK041

2

151658

2

Monday, June 05, 2017 4:53:55 PM

Shop Packet Print

Page 265

Picklist Print

Monday, June 05, 2017 4:53:55 PM

Page 266

Work Order ID: 162460

162460

Parent Item: 646.9502

646 9502

Parent Item Name: 206A/B/L-Series Cable Cutter System, Low

Start Date: 6/8/2017

Required Date: 6/21/2017

Start Qty: 1.00

Required Qty: 1.00

646.9910 Manufactured No

110 Each 23.0000 4 4

646 9910

Struts

DAS
28
9-89

**

DAS
27
9-89

DAS
26
9-89

AUG 04 2017

Location

Loc Qty

Loc Code

CCK014

23

146573

1

150149

4

151904

8

155353

10

647.0110 Manufactured No

110 Each 11.0000 1 1

647 0110

Roof Doubler

DAS
28
9-89

**

DAS
27
9-89

DAS
26
9-89

AUG 04 2017

Location

Loc Qty

Loc Code

CCK088

11

142622

1

155468

10

647.0111 Manufactured No

110 Each 3.0000 1 1

647 0111

Panel

DAS
28
9-89

**

DAS
27
9-89

DAS
26
9-89

AUG 04 2017

Location

Loc Qty

Loc Code

CCK088

3

142691

3

647.0112 Manufactured No

110 Each 35.0000 8 8

647 0112

Strut Bracket

DAS
28
9-89

**

DAS
27
9-89

DAS
26
9-89

AUG 04 2017

Location

Loc Qty

Loc Code

CCK106

35

159844

35

Monday, June 05, 2017 4:53:55 PM

Shop Packet Print

Page 266

Picklist Print

Monday, June 05, 2017 4:53:55 PM

Page 267

Work Order ID: 162460

162460

Parent Item: 646.9502

646 9502

Parent Item Name: 206A/B/L-Series Cable Cutter System, Low

Start Date: 6/8/2017

Required Date: 6/21/2017

Start Qty: 1.00

Required Qty: 1.00

647.0113
647 0113
Strut Doubler

DAS
28
9-89

Manufactured No

110 Each 15.0000 2 2

**

DAS
27
9-89

DAS
26
9-89

AUG 04 2017

Location

Loc Qty

Loc Code

CCK089

15

142256

5

155571

10

2x

647.0114
647 0114
Clip

DAS
28
9-89

Manufactured No

110 Each 52.0000 1 1

**

DAS
27
9-89

DAS
26
9-89

AUG 04 2017

Location

Loc Qty

Loc Code

CCK107

52

106616

52

1x

647.0115
647 0115
Clip

DAS
28
9-89

Manufactured No

110 Each 47.0000 1 1

**

DAS
27
9-89

DAS
26
9-89

AUG 04 2017

Location

Loc Qty

Loc Code

CCK107

47

106617

47

1x

647.0116
647 0116
Doubler

DAS
28
9-89

Manufactured No

110 Each 6.0000 2 2

**

DAS
27
9-89

DAS
26
9-89

AUG 04 2017

Location

Loc Qty

Loc Code

CCK107

6

151372

6

2x

Picklist Print

Monday, June 05, 2017 4:53:55 PM

Page 268

Work Order ID: 162460

162460

Parent Item: 646.9502

646 9502

Parent Item Name: 206A/B/L-Series Cable Cutter System, Low

Start Date: 6/8/2017

Required Date: 6/21/2017

Start Qty: 1.00

Required Qty: 1.00

647.0210
647 0210

Rail

DAS
28
9-89

Manufactured No

110 Each

5.0000

1 1

**

B160442

DAS
26
9-89
AUG 04 2017

Location

Loc Qty

Loc Code

CCK089

5

151662

5

1x

647.0310
647 0310

Channel

DAS
28
9-89

Manufactured No

110 Each

4.0000

2 2

**

DAS
26
9-89
AUG 04 2017

Location

Loc Qty

Loc Code

CCK090

4

151660

4

2x

647.0410
647 0410

Tube

DAS
28
9-89

Manufactured No

110 Each

3.0000

1 1

**

DAS
26
9-89
AUG 04 2017

Location

Loc Qty

Loc Code

CCK107

3

149601

2

151677

1

1x

647.1210
647 1210

Screen

DAS
28
9-89

Manufactured No

110 Each

27.0000

1 1

**

DAS
26
9-89
AUG 04 2017

Location

Loc Qty

Loc Code

CCK107

27

142727

2

159856

25

1x

Picklist Print

Monday, June 05, 2017 4:53:55 PM

Page 269

Work Order ID: 162460

162460

Parent Item: 646.9502

646 9502

Parent Item Name: 206A/B/L-Series Cable Cutter System, Low

Start Date: 6/8/2017

Required Date: 6/21/2017

Start Qty: 1.00

Required Qty: 1.00

AN3-10A

Purchased

No

110

Each

207.0000

8

**

AN3-10A

Bolt

DAS
28
9-89

Location

Loc Qty

Loc Code

GA

59

m136787

59

over003

100

m137321

0

m137544

100

ST349

48

m137321

48

AN3-11A

Purchased

No

110

Each

220.0000

8

**

AN3-11A

Bolt

DAS
28
9-89

Location

Loc Qty

Loc Code

over003

100

m136192

100

ST349

120

153855

120

AN3-3A

Purchased

No

110

Each

90.0000

1

**

AN3-3A

Bolt

DAS
28
9-89

Location

Loc Qty

Loc Code

ST350

90

m137391

8

m137597

82

DAS
26
9-89

DAS
27
9-89

AUG 04 2017

DAS
26
9-89

DAS
27
9-89

AUG 04 2017

DAS
26
9-89

DAS
27
9-89

AUG 04 2017

Picklist Print

Monday, June 05, 2017 4:53:55 PM

Page 270

Work Order ID: 162460

162460

Parent Item: 646.9502

646 9502

Parent Item Name: 206A/B/L-Series Cable Cutter System, Low

Start Date: 6/8/2017

Required Date: 6/21/2017

Start Qty: 1.00

Required Qty: 1.00

AN743-13 Purchased No

110 Each 19.0000 1 1

AN743-13

Bracket

**

SF

DAS
27
9-89

AUG 04 2017

DAS
28
9-89

Location

Loc Qty

Loc Code

ST330

19

M129732

9

M136665

10

1x

CCR264SS3-04 Purchased No

110 Each 129.0000 12 12

CCR264SS3-04

Rivet

**

DAS
27
9-89

AUG 04 2017

DAS
28
9-89

Location

Loc Qty

Loc Code

ST321

129

123785

29

m137391

100

12x

CCR264SS-3-06 Purchased No

110 Each 71.0000 8 8

CCR264SS-3-06

Rivet

**

DAS
27
9-89

AUG 04 2017

DAS
28
9-89

Location

Loc Qty

Loc Code

ST321

71

m135865

71

8x

CCR264SS3-2 CCR264SS3-02 Purchased No

110 Each 0.0000 4 4

CCR264SS3-2

Rivet, Cherry

**

m137710

DAS
27
9-89

AUG 04 2017

DAS
28
9-89

CR3212-4-4 CR3212-4-04 Purchased No

110 Each 0.0000 1 1

CR3212-4-4

CHERRY RIVET

**

1

m136263

DAS
27
9-89

AUG 04 2017

DAS
28
9-89

Picklist Print

Monday, June 05, 2017 4:53:55 PM

Page 271

Work Order ID: 162460

162460

Parent Item: 646.9502

646 9502

Parent Item Name: 206A/B/L-Series Cable Cutter System, Low

Start Date: 6/8/2017

Required Date: 6/21/2017

Start Qty: 1.00

Required Qty: 1.00

CR3212-5-4

Purchased No

110 Each

64.0000

8

8

CR3212-5-4

Cherry Rivet

DAS
28
9-89

Location

Loc Qty

Loc Code

ST320

64

m133709

64

**

DAS
26
9-89
DAS
27
9-89

AUG 04 2017

CR3213-4-05

Purchased No

110 Each

2.0000

26

26

CR3213-4-05

RIVET

DAS
28
9-89

Location

Loc Qty

Loc Code

ST319

2

m137544

2

**

DAS
26
9-89
DAS
27
9-89

AUG 04 2017

CR3213-4-1

Purchased No

110 Each

124.0000

14

14

CR3213-4-1

Cherry Rivet

DAS
28
9-89

Location

Loc Qty

Loc Code

ST320

124

m135774

24

m137478

100

**

DAS
26
9-89
DAS
27
9-89

AUG 04 2017

CR3213-4-2

Purchased No

110 Each

168.0000

18

18

CR3213-4-2

Cherry Rivet

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK003

100

m137621

100

ST320

68

m137412

68

**

DAS
26
9-89
DAS
27
9-89

AUG 04 2017

Picklist Print

Monday, June 05, 2017 4:53:55 PM

Page 272

Work Order ID: 162460

162460

Parent Item: 646.9502

646.9502

Parent Item Name: 206A/B/L-Series Cable Cutter System, Low

Start Date: 6/8/2017

Required Date: 6/21/2017

Start Qty: 1.00

Required Qty: 1.00

CR3213-4-3	Purchased	No	110	Each	246.0000	18	18	
CR3213-4-3 ** DAS 26 9-89 DAS 27 9-89								
Rivet, Cherry								

DAS
28
9-89

Location	Loc Qty	Loc Code
GA	92	
m136042	92	
ST319	154	
m136851	154	

AUG 04 2017

CR3213-4-4	Purchased	No	110	Each	308.0000	19	19	
CR3213-4-4 ** DAS 26 9-89 DAS 27 9-89								
Rivet, Cherry								

DAS
28
9-89

Location	Loc Qty	Loc Code
CCK003	200	
m137391	200	
ST319	108	
m136301	108	

AUG 04 2017

CR3213-4-6	Purchased	No	110	Each	191.0000	20	20	
CR3213-4-6 ** DAS 26 9-89 DAS 27 9-89								
Rivet								

DAS
28
9-89

Location	Loc Qty	Loc Code
CCK003	100	
M136199	100	
ST319	91	
M131800	1	
M135978	90	

AUG 04 2017

MS21042-08	MS21042L08	Purchased	No	110	Each	0.0000	54	54	
MS21042-08 ** DAS 27 9-89 DAS 26 9-89									
USE MS21042L08									

DAS
28
9-89

Location	Loc Qty	Loc Code
ST319	91	
M131800	1	
M135978	90	

AUG 04 2017

MS21042-3	MS21042L3	Purchased	No	110	Each	0.0000	17	17	
MS21042-3 ** DAS 27 9-89 DAS 26 9-89									
Nut									

DAS
28
9-89

Monday, June 05, 2017 4:53:56 PM

Shop Packet Print

AUG 04 2017

Page 272

Picklist Print

Monday, June 05, 2017 4:53:56 PM

Page 273

Work Order ID: 162460

162460

Parent Item: 646.9502

646 9502

Parent Item Name: 206A/B/L-Series Cable Cutter System, Low

Start Date: 6/8/2017

Required Date: 6/21/2017

Start Qty: 1.00

Required Qty: 1.00

MS21047-3 Purchased No

110 Each 161.0000 6 6

MS21047-3

Nut Plate

DAS
28
9-89

Location

Loc Qty

Loc Code

ST301

161

m137075

11

m137459

150

**

DAS
26
9-89

DAS
27
9-89

AUG 04 2017

MS21059-3 Purchased No

110 Each 441.0000 2 2

MS21059-3

Nut Plate

DAS
28
9-89

Location

Loc Qty

Loc Code

ST301

441

123023

30

123900

411

**

DAS
26
9-89

DAS
27
9-89

AUG 04 2017

MS21059L08 Purchased No

110 Each 129.0000 4 4

MS21059L08

Nut

DAS
28
9-89

Location

Loc Qty

Loc Code

ST300

129

m134943

29

m136554

100

**

DAS
26
9-89

DAS
27
9-89

AUG 04 2017

MS24694-S8 Purchased No

110 Each 74.0000 5 5

MS24694-S8

Screw

DAS
28
9-89

Location

Loc Qty

Loc Code

ST285

74

M134654

74

**

DAS
26
9-89

DAS
27
9-89

AUG 04 2017

Picklist Print

Monday, June 05, 2017 4:53:56 PM

Page 274

Work Order ID: 162460

162460

Parent Item: 646.9502

646.9502

Parent Item Name: 206A/B/L-Series Cable Cutter System, Low

Start Date: 6/8/2017

Required Date: 6/21/2017

Start Qty: 1.00

Required Qty: 1.00

MS27039-08-06

Purchased

No

110

Each

58.0000

4

4

MS27039-08-06

Screw

**

DAS
27
9-89

DAS
26
9-89

AUG 04 2017

Location

Loc Qty

Loc Code

ST278

58

m126249

58

MS27039-08-09

Purchased

No

110

Each

56.0000

4

4

MS27039-08-09

Screw

**

DAS
27
9-89

DAS
26
9-89

AUG 04 2017

Location

Loc Qty

Loc Code

ST278

56

m135536

56

MS27039-08-11

Purchased

No

110

Each

274.0000

43

43

MS27039-08-11

SCREW

**

DAS
27
9-89

DAS
26
9-89

AUG 04 2017

Location

Loc Qty

Loc Code

ST278

274

m135864

24

m137412

250

MS27039-08-12

Purchased

No

110

Each

110.0000

2

2

MS27039-08-12

Screw

**

DAS
27
9-89

DAS
26
9-89

AUG 04 2017

Location

Loc Qty

Loc Code

ST278

110

123352

10

124326

100

Picklist Print

Monday, June 05, 2017 4:53:56 PM

Page 275

Work Order ID: 162460

162460

Parent Item: 646.9502

646.9502

Parent Item Name: 206A/B/L-Series Cable Cutter System, Low

Start Date: 6/8/2017

Required Date: 6/21/2017

Start Qty: 1.00

Required Qty: 1.00

MS27039-08-13

Purchased

No

110

Each

275.0000

6

6

MS27039-08-13

Screw

DAS
28
9-89

Location

Loc Qty

Loc Code

ST278

275

153849

275

110

Each

149.0000

5

5

MS27039-1-08

Purchased

No

MS27039-1-08

Screw

DAS
28
9-89

Location

Loc Qty

Loc Code

FP001

89

m136047

3

m137361

86

GA

22

m128636

22

ST281

38

m137361

38

MS27039-1-11

Purchased

No

MS27039-1-11

Screw

DAS
28
9-89

Location

Loc Qty

Loc Code

ST280

99

m137544

99

110

Each

17.0000

1

1

MS35842-11

Purchased

No

MS35842-11

Hose Clamp

DAS
28
9-89

Location

Loc Qty

Loc Code

ST545

17

m134943

17

DAS
27
9-89
AUG 04 2017

DAS
26
9-89
AUG 04 2017

DAS
27
9-89
AUG 04 2017

DAS
27
9-89

DAS
26
9-89

AUG 04 2017

Picklist Print

Monday, June 05, 2017 4:53:56 PM

Page 276

Work Order ID: 162460

162460

Parent Item: 646.9502

646 9502

Parent Item Name: 206A/B/L-Series Cable Cutter System, Low

Start Date: 6/8/2017

Required Date: 6/21/2017

Start Qty: 1.00

Required Qty: 1.00

NAS1149F0332P

Purchased

No

110

Each

1,507.000

62

62

NAS1149F0332P

Washer

**

m137710

DAS
27
9-89

DAS
26
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

GA

275

m133709

275

ST262

1232

m137075

13

m137412

1219

AUG 04 2017

NAS1149FN832P

Purchased

No

110

Each

1,771.000

111

111

NAS1149FN832P

Washer

**

7x m137820

DAS
27
9-89

DAS
26
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

GA

358

M135058

208

M136182

40

M136866

110

ST263

1413

M137412

1413

AUG 04 2017

NAS1835-08

Purchased

No

110

Each

34.0000

4

4

NAS1835-08

Insert

**

104x

DAS
26
279-89
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

st549

34

m135864

10

m137412

24

AUG 04 2017

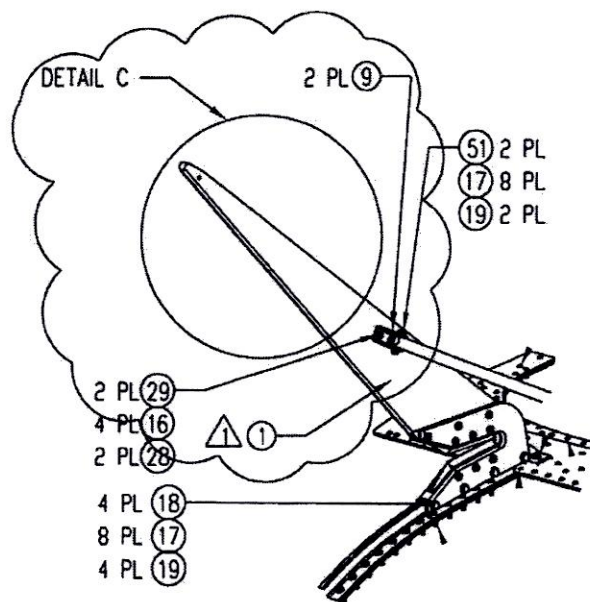
APICAL INDUSTRIES, INC.	ENGINEERING CHANGE NOTICE NO. 03047				SHEET 1 OF 1	
	DWG NO. 646.9500	REV: NC	PREPARED BY J. JACKSON	DATE: 01/24/11	EFFECT ON DWG ☐ INC. ☒ UNINC.	
	DWG TITLE: 206 CABLE CUTTERS KIT					
APPROVED BY: ENGR <i>[Signature]</i>		MFG <i>[Signature]</i>		DC <i>[Signature]</i>		EFF: NEXT ORDER
TRANSACTION CODES (TC): A-ADD C-CREATE R-REVISE D-DELETE		REASON: ADDED GPS MOUNT KIT, F/N 52. REVISED DRAWING VIEWS. ADDED NOTE <u>2</u> .				

SHEET 1, ZONE B1 IS:

2 AT CUSTOMERS OPTION, INSTALL F/N 52 BY MATCH DRILLING ONTO F/N 1.

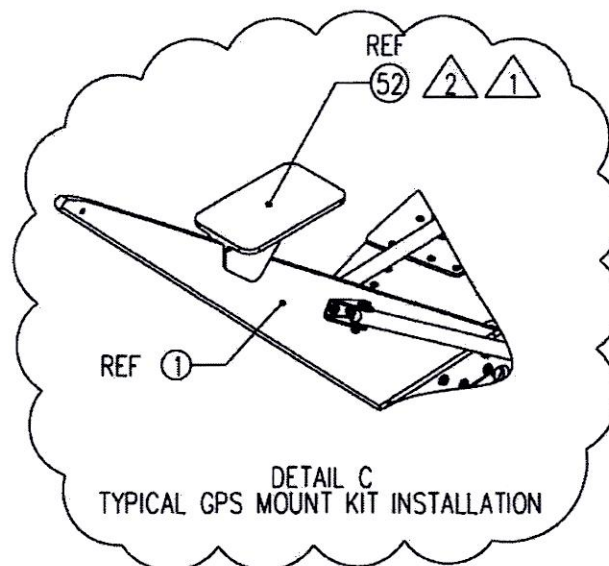
SHEET 2, ZONE A3 IS:

SHEET 2, ZONE B2 IS:



SHOP COPY
 RETURN TO
 ENGINEERING
 UNCONTROLLED COPY
 SUBJECT TO AMENDMENT
 WITHOUT NOTICE
 WORK ORDER
 NO. 162460

PL 20170607



52	A	647.5701	REF	REF	GPS MOUNT KIT	<u>2</u>	
F/N	TC	PART NUMBER	.9502	.9501	DESCRIPTION	MATERIAL	SPECIFICATION
			QTY				
DOCUMENTS EFFECTED:						CHANGE CATEGORY	DER REVIEW REQUIRED
☐ MDL ☐ INSTALL INSTRU ☐ ICA ☒ BOM						☐ MAJOR ☒ MINOR	☐ YES ☒ NO

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval 	
Description Work Order Deviation				Disposition					
								Completed By 	
								Lead hand / Supervisor Approval Verification 	
								QC / QA Coordinator Approval 	

Root Cause				FAULT CATEGORY							
Environment	☐	No Re-verification	☐	Pressure/Forced	☐	Temperature/Cure	☐	Power Loss/Surge	☐	Positioned Wrong	☐
Design	☐	Operator	☐	Bending	☐	Set-up	☐	Folio/Program	☐	Outside Dimensions	☐
Doc/Data	☐	Offset/Setup	☐	Centre Not Concentric	☐	BOM/Route	☐	Grain	☐	Over/Under tolerance	☐
Equip/Tooling	☐	Supplier	☐	Cracks	☐	Broken/Damage/Defect	☐	Weld	☐	Part Incorrect	☐
Handling/Pre	☐	Training	☐	Crimp/Kink/Ripple/Wave	☐	Inspection Incomplete/Unqualified	☐	Wrong Stock Pulled	☐	Part Lost/Missing	☐
Material	☐	Use for Testing	☐	Cuffs	☐	Contamination	☐	Out of Sequence	☐	Part Moved	☐
Internal Transport	☐	Poor Information	☐	Crushing	☐	Countersink	☐	Off-set	☐	Drawing	☐
Tribal Knowledge	☐	Rushing	☐	Heat Treat	☐	Cut Too Short	☐	Mislabeled	☐	Finish	☐
LOA	☐	Product Improvement	☐	Wave/Twist in Tube	☐	Instructions Incomplete/Unclear	☐	Fit/Function	☐	Misread	☐
Substation	☐	Process Improvement	☐	Marks/Chatter	☐	Drill Holes	☐	Misaligned/off center	☐	Turning Sequence	☐
Past Expiry Date	☐	Manufacturing Process	☐	OTHER : _____							
Misidentified	☐	Past Due	☐								

APICAL INDUSTRIES, INC.	ENGINEERING CHANGE NOTICE NO. 02736			SHEET 1 OF 1	
	DWG NO. 646.9500	REV: N/C	PREPARED BY S. HUFF	DATE: 01/06/10	EFFECT ON DWG ☐ INC. ☒ UNINC.
	DWG TITLE: 206 CABLE CUTTERS KIT				
APPROVED BY: ENGR <i>[Signature]</i>		MFG <i>[Signature]</i>	QC <i>[Signature]</i>	EFF: CURRENT ORDER	
TRANSACTION CODES (TC): A-ADD C-CREATE R-REVISE D-DELETE		REASON: CORRECTED PARTS LIST ERRORS			

17	R	601.1607	62	62	WASHER	NAS1149F0332P
16	R	601.2764	111	111	WASHER	NAS1149FN832P
			9502	9501		
F/N	TC	PART NUMBER	QTY		DESCRIPTION	MATERIAL/SPECIFICATION
DOCUMENTS EFFECTED: ☐ MDL ☒ INSTALL INSTRUC ☒ ICA ☐ FMS ☒ BOM						CHANGE CATEGORY ☐ MAJOR ☒ MINOR
						DER REVIEW REQUIRED ☐ YES ☒ NO

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval 		
Description Work Order Deviation				Disposition					
								Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	

Root Cause			FAULT CATEGORY							
Environment ☐	☐	No Re-verification	☐	Pressure/Forced	☐	Temperature/Cure	☐	Power Loss/Surge	☐	Positioned Wrong
Design ☐	☐	Operator	☐	Bending	☐	Set-up	☐	Folio/Program	☐	Outside Dimensions
Doc/Data ☐	☐	Offset/Setup	☐	Centre Not Concentric	☐	BOM/Route	☐	Grain	☐	Over/Under tolerance
Equip/Tooling ☐	☐	Supplier	☐	Cracks	☐	Broken/Damage/Defect	☐	Weld	☐	Part Incorrect
Handling/Pre ☐	☐	Training	☐	Crimp/Kink/Ripple/Wave	☐	Inspection Incomplete/Unqualified	☐	Wrong Stock Pulled	☐	Part Lost/Missing
Material ☐	☐	Use for Testing	☐	Cuffs	☐	Contamination	☐	Out of Sequence	☐	Part Moved
Internal Transport ☐	☐	Poor Information	☐	Crushing	☐	Countersink	☐	Off-set	☐	Drawing
Tribal Knowledge ☐	☐	Rushing	☐	Heat Treat	☐	Cut Too Short	☐	Mislabeled	☐	Finish
LOA ☐	☐	Product Improvement	☐	Wave/Twist in Tube	☐	Instructions Incomplete/Unclear	☐	Fit/Function	☐	Misread
Substation ☐	☐	Process Improvement	☐	Marks/Chatter	☐	Drill Holes	☐	Misaligned/off center	☐	Turning Sequence
Past Expiry Date ☐	☐	Manufacturing Process	OTHER :							
Misidentified ☐	☐	Past Due								

APICAL INDUSTRIES, INC.	ENGINEERING CHANGE NOTICE NO. 02729				SHEET 1 OF 3		
	DWG NO. 646.9500		REV: N/C		PREPARED BY S. HUFF		
	DATE: 12/23/09		EFFECT ON DWG ☐ INC. ☒ UNINC.				
	DWG TITLE: 206 CABLE CUTTERS KIT						
APPROVED BY:		ENGR <i>[Signature]</i>		MFG <i>[Signature]</i>		QC <i>[Signature]</i>	
TRANSACTION CODES (TC) A-ADD C-CREATE R-REVISE D-DELETE		REASON: HARDWARE REVISIONS FROM FIRST INSTALL					

51	A	601.3155	8	8	BOLT	AN3-10A
50	A	601.3153	5	5	SCREW	MS24694S8
41	R	601.2893	43	43	SCREW	MS27039-0811
28	R	601.2973	54	54	LOCKNUT	MS21042-08
18	R	601.2826	8	8	BOLT	AN3-11A
16	R	601.2764	127	127	WASHER	NAS1149FN832P
			9502	9501		
F/N	TC	PART NUMBER	QTY		DESCRIPTION	MATERIAL/SPECIFICATION
DOCUMENTS EFFECTED: ☐ MDL ☒ INSTALL INSTRUC ☒ ICA ☐ FMS ☒ BOM						CHANGE CATEGORY ☐ MAJOR ☒ MINOR
						DER REVIEW REQUIRED ☐ YES ☒ NO

DQA: _____ Date: _____

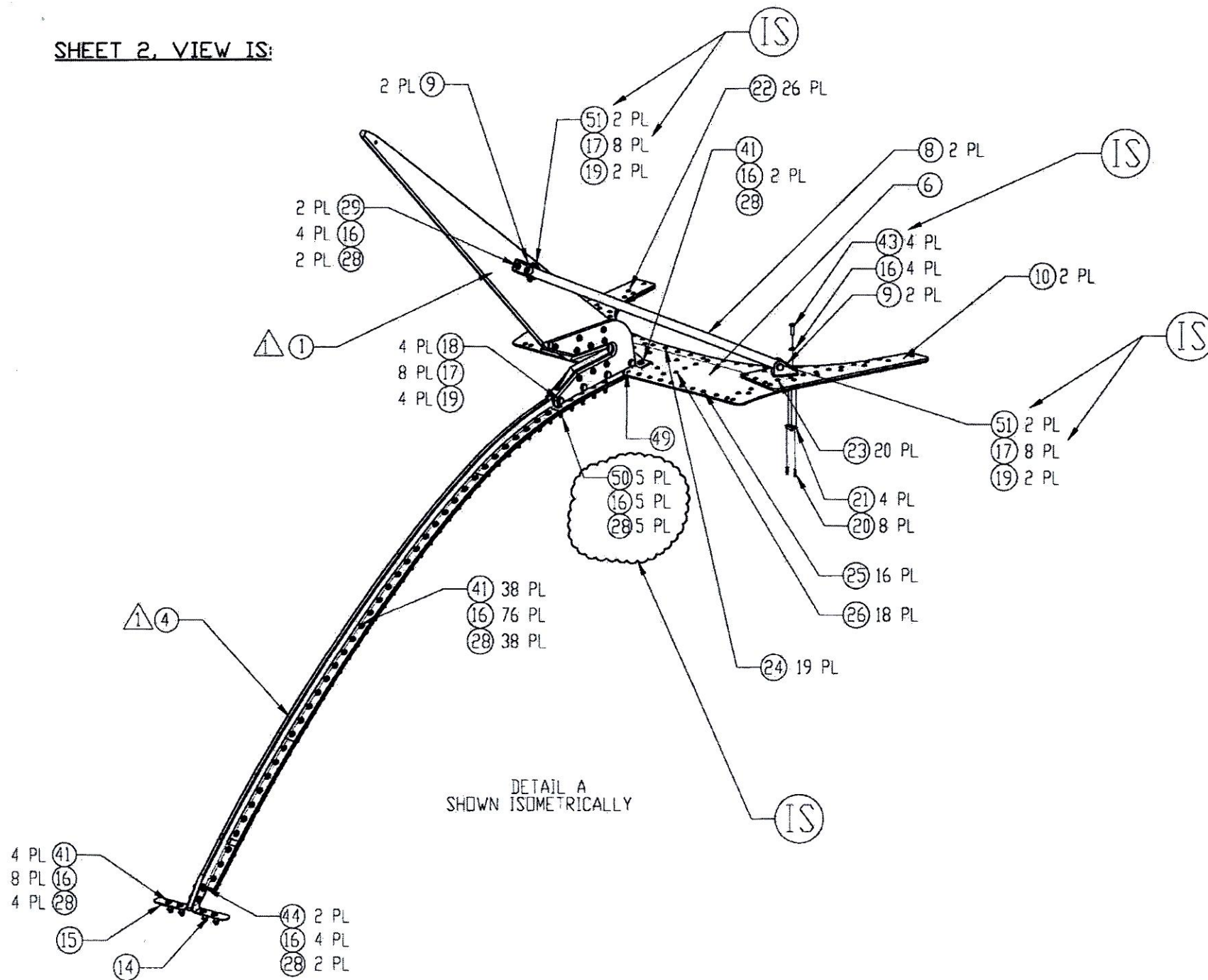


WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐																																																													
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval																																																										
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval																																																									
Root Cause		FAULT CATEGORY																																																															
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐	Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐	Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐	Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐	Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐	Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐	Internal Transport ☐	Poor Information ☐	Crushing ☐	Cutersink ☐	Off-set ☐	Drawing ☐	Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐	LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐	Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐	Past Expiry Date ☐	Manufacturing Process ☐	OTHER :			
Misidentified ☐	Past Due ☐																																																																

SHEET 2, VIEW IS:

DQA: _____ Date: _____



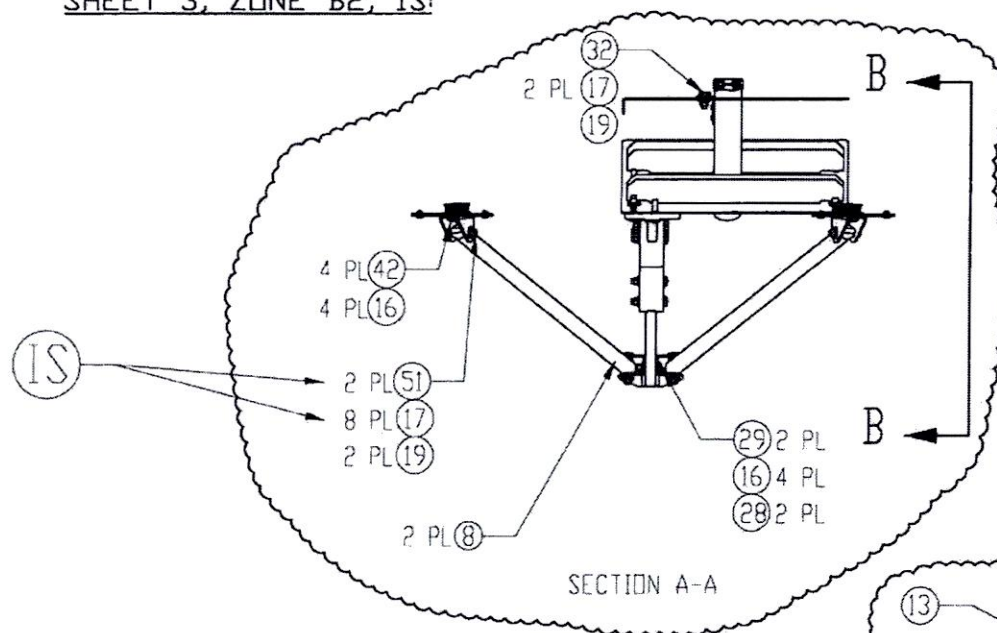
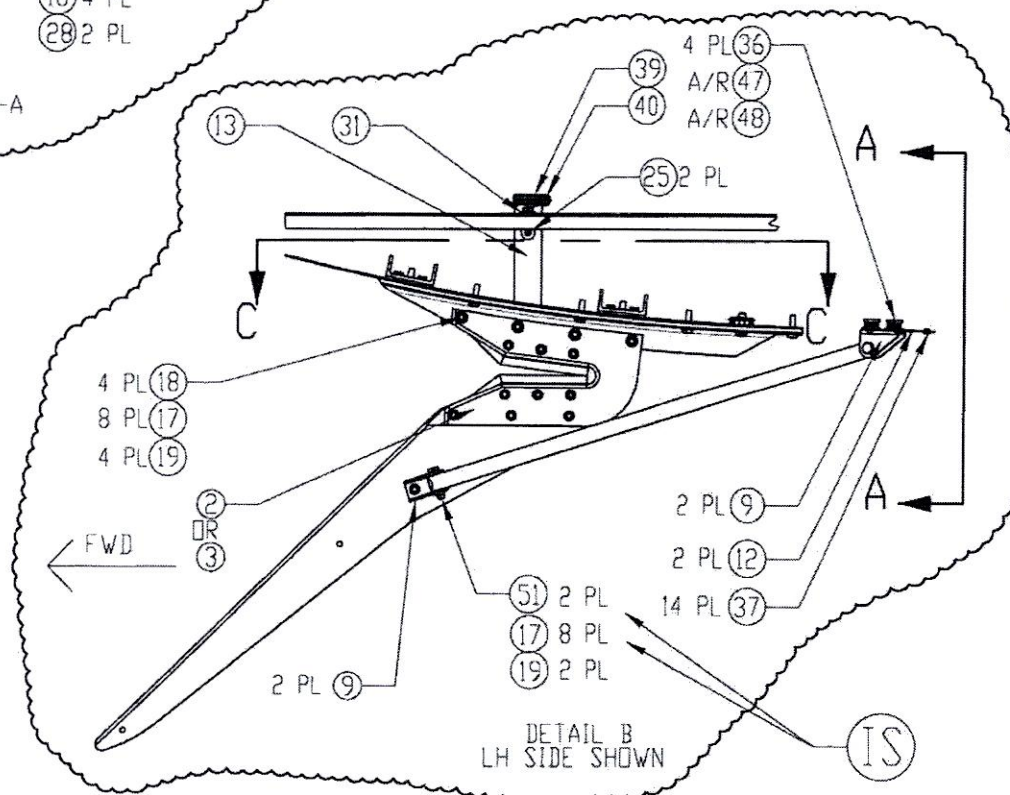
WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval 		
Description Work Order Deviation				Disposition					
							Completed By		
							Lead hand / Supervisor Approval Verification		
							QC / QA Coordinator Approval		

Root Cause				FAULT CATEGORY			
Environment ☐		No Re-verification ☐		Pressure/Forced ☐		Temperature/Cure ☐	
Design ☐		Operator ☐		Bending ☐		Set-up ☐	
Doc/Data ☐		Offset/Setup ☐		Centre Not Concentric ☐		BOM/Route ☐	
Equip/Tooling ☐		Supplier ☐		Cracks ☐		Broken/Damage/Defect ☐	
Handling/Pre ☐		Training ☐		Crimp/Kink/Ripple/Wave ☐		Inspection Incomplete/Unqualified ☐	
Material ☐		Use for Testing ☐		Cuffs ☐		Contamination ☐	
Internal Transport ☐		Poor Information ☐		Crushing ☐		Countersink ☐	
Tribal Knowledge ☐		Rushing ☐		Heat Treat ☐		Cut Too Short ☐	
LOA ☐		Product Improvement ☐		Wave/Twist in Tube ☐		Instructions Incomplete/Unclear ☐	
Substation ☐		Process Improvement ☐		Marks/Chatter ☐		Drill Holes ☐	
Past Expiry Date ☐		Manufacturing Process ☐		OTHER : ☐			
Misidentified ☐		Past Due ☐					

SHEET 3, ZONE B2, IS:SHEET 3, ZONE D2, IS:

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐																																																													
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval																																																										
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval																																																									
Root Cause		FAULT CATEGORY																																																															
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐	Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐	Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐	Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐	Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐	Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐	Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐	Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐	LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐	Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐	Past Expiry Date ☐	Manufacturing Process ☐	OTHER :			
Misidentified ☐	Past Due ☐																																																																

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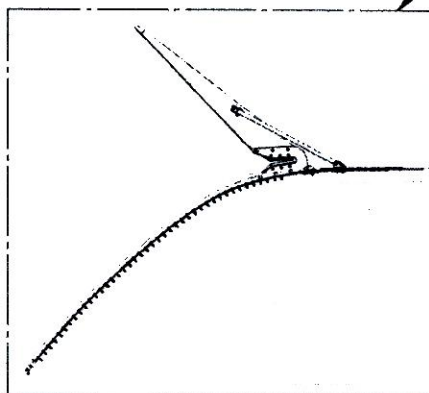
NOTES:

1 AFTER INSTALLATION, APPLY F/N 46 A/R TO FILL GAPS AND FILLET EDGES

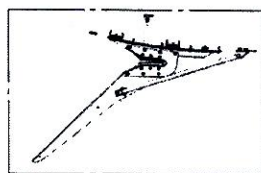
UNINCORPORATED ECN(S)

02729, 02736, 03047

DETAIL A



DETAIL B



QTY	1	1	49	601.1066	RIVET	CR3212-4-4	
	1	1	48	600.0991	MAGNOBOND 6398 PART B		
	1	1	47	600.0990	MAGNOBOND 6398 PART A		
	1	1	46	600.1012	SEALANT	PR-1425 CLASS B	
	5	5	45	601.1949	SCREW	MS27039-1-11	
	2	2	44	601.2989	SCREW	MS27039-0812	
	4	4	43	601.2987	SCREW	MS27039-0809	
	4	4	42	601.3000	SCREW	MS27039-3806	
1502	1501	FIND #	PART #	DESCRIPTION	MAT'L	SPEC.	

REV.	DESCRIPTION	DATE	APPROVED
1501	PROPOSED REVISION #10		ENC
1502	FINAL RELEASE	06/03/09	P. BRAYD

47	47	41	601.2893	SCREW	MS27039-0811	
1	1	40	601.2982	HOSE CLAMP	MS35042-11	
1	1	39	647.1210	SCREEN		
5	5	38	601.1621	SCREW	MS27039-1-06	
14	14	37	601.2979	RIVET	CR3213-4-1	
4	4	36	601.2984	INSERT	MS1835-08	
4	4	35	601.2277	RIVET	CCP2459-809	
8	8	34	601.2983	RIVET	CR3212-5-4	
12	12	33	601.2980	NUTPLATE RIVET	CCP2455-541	
1	1	32	601.2822	BOLT	AN3-3A	
1	1	31	601.2985	BRACKET	AN625-13	
2	2	30	601.1900	NUTPLATE	MS21059-3	
6	6	29	601.2988	SCREW	MS27039-0813	
53	53	28	601.2973	LOCKNUT	MS21042-08	
6	6	27	600.0795	NUTPLATE	MS21047-3	
18	18	26	601.0790	RIVET	CR3213-4-3	
18	18	25	601.1039	RIVET	CR3213-4-2	
19	19	24	601.1915	RIVET	CR3213-4-4	
20	20	23	601.2991	RIVET	CR3213-4-5	
26	26	22	601.1183	RIVET	CR3213-4-5	
4	4	21	601.2356	NUTPLATE	MS21059-08	
8	8	20	601.2981	NUTPLATE RIVET	CCP2459-304	
17	17	19	601.2943	LOCKNUT	MS21042-3	
16	16	18	601.2826	BOLT	AN3-11A	
46	46	17	601.1607	WASHER	MS11499803P	
114	114	16	601.2764	WASHER	MS11499803P	
1	1	15	647.0115	CLIP		
1	1	14	647.0114	CLIP		
1	1	13	647.0410	TUBE		
2	2	12	647.0116	DOUBLER		
1	1	11	647.0111	PANEL		
2	2	10	647.0113	STRUT DOUBLER		
8	8	9	647.0112	STRUT BRACKET		
4	4	8	646.9910	STRUT		
2	2	7	647.0310	CHANNEL		
1	1	6	647.0110	ROOF DOUBLER		
1	1	5	647.0210	RAIL		
1	1	4	646.9810	DEFLECTOR		
1	1	3	646.9603	LOWER CUTTER ASSY LOW		
1	1	2	646.9602	LOWER CUTTER ASSY HIGH		
1	1	1	646.9601	UPPER CUTTER ASSY		
			646.9502	206 CABLE CUTTERS KIT LOW		
			646.9501	206 CABLE CUTTERS KIT HIGH		
1502	1501	FIND #	PART #	DESCRIPTION	MAT'L	SPEC.

NEXT ASSY (S)		ORIGINAL DATE 12/06/07		DESIGNED BY C. HICKER	
		DRAWN BY H. ROSANO		CHECKED BY D. BARKER	
		DRAWING APPROVAL 10-03-09		CONTRACT NO.	
		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 3 PLACE DECIMALS ±.010 2 PLACE DECIMALS ±.005 ANGLES ±.5°			
APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300					
206 CABLE CUTTERS KIT KIT CODE: 646.9500 DWD NO: 07M26 SCALE: NONE SHEET 1 OF 3					

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

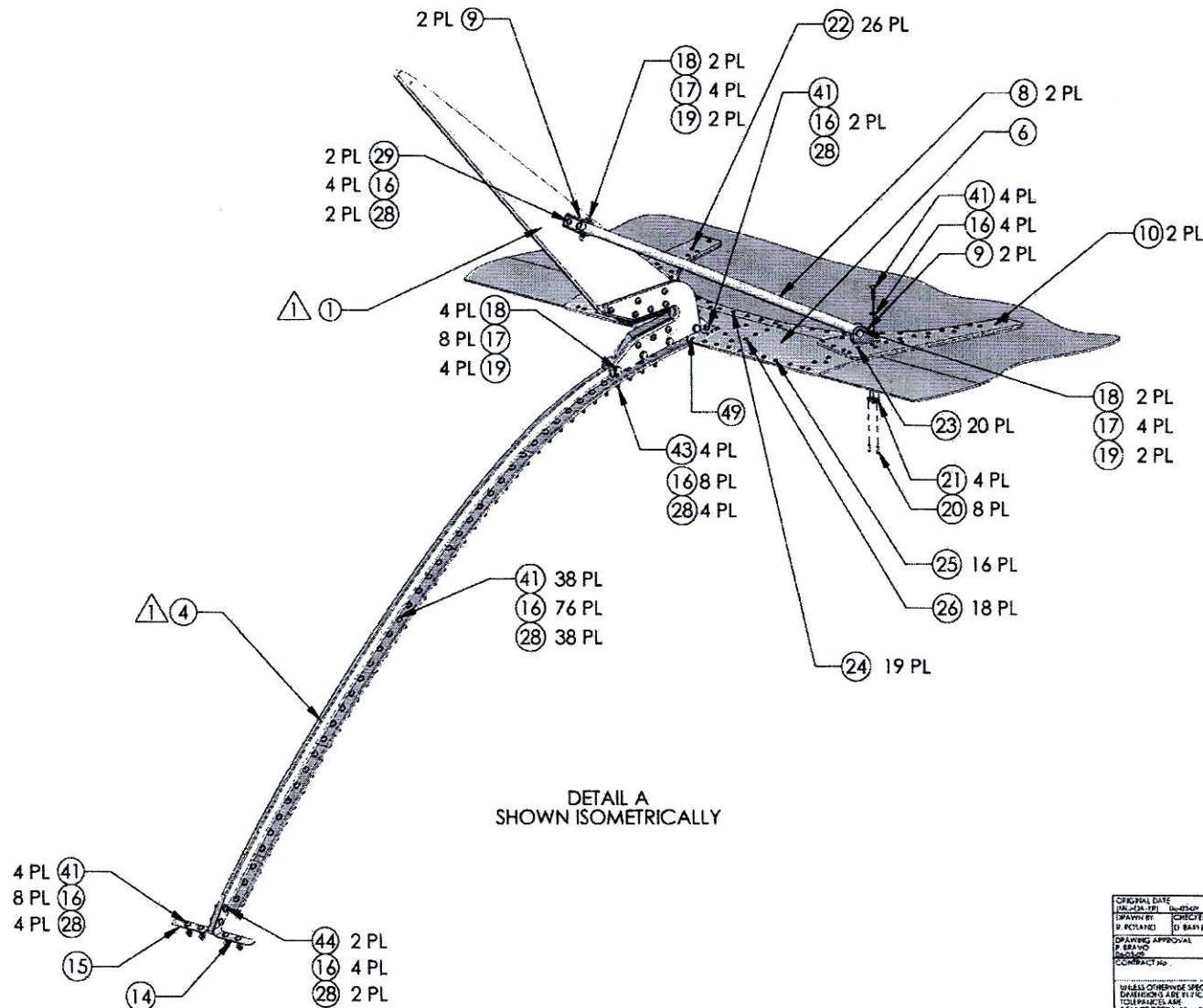
QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval 	
Description Work Order Deviation				Disposition					
								Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	

Root Cause				FAULT CATEGORY							
Environment	☐	No Re-verification	☐	Pressure/Forced	☐	Temperature/Cure	☐	Power Loss/Surge	☐	Positioned Wrong	☐
Design	☐	Operator	☐	Bending	☐	Set-up	☐	Folio/Program	☐	Outside Dimensions	☐
Doc/Data	☐	Offset/Setup	☐	Centre Not Concentric	☐	BOM/Route	☐	Grain	☐	Over/Under tolerance	☐
Equip/Tooling	☐	Supplier	☐	Cracks	☐	Broken/Damage/Defect	☐	Weld	☐	Part Incorrect	☐
Handling/Pre	☐	Training	☐	Crimp/Kink/Ripple/Wave	☐	Inspection Incomplete/Unqualified	☐	Wrong Stock Pulled	☐	Part Lost/Missing	☐
Material	☐	Use for Testing	☐	Cuffs	☐	Contamination	☐	Out of Sequence	☐	Part Moved	☐
Internal Transport	☐	Poor Information	☐	Crushing	☐	Countersink	☐	Off-set	☐	Drawing	☐
Tribal Knowledge	☐	Rushing	☐	Heat Treat	☐	Cut Too Short	☐	Mislabeled	☐	Finish	☐
LOA	☐	Product Improvement	☐	Wave/Twist in Tube	☐	Instructions Incomplete/Unclear	☐	Fit/Function	☐	Misread	☐
Substation	☐	Process Improvement	☐	Marks/Chatter	☐	Drill Holes	☐	Misaligned/off center	☐	Turning Sequence	☐
Past Expiry Date	☐	Manufacturing Process	☐	OTHER : _____							
Misidentified	☐	Past Due	☐								

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DETAIL A
SHOWN ISOMETRICALLY

ORIGINAL DATE 10-24-79		DESIGNED BY H. RYLAND		CHECKED BY D. BAYLER	
DRAWING APPROVAL P. SEAVER		APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300			
CONTRACT NO.					
206 CABLE CUTTERS KIT					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± FRACTIONS DECIMALS ± FRACTIONS DECIMALS ±					
SHEET 8	CAGE CODE 07M26	DWG. NO. 646.9500	REV. NVC		
SCALE: NONE			SHEET 2 OF 3		

DQA: _____ Date: _____

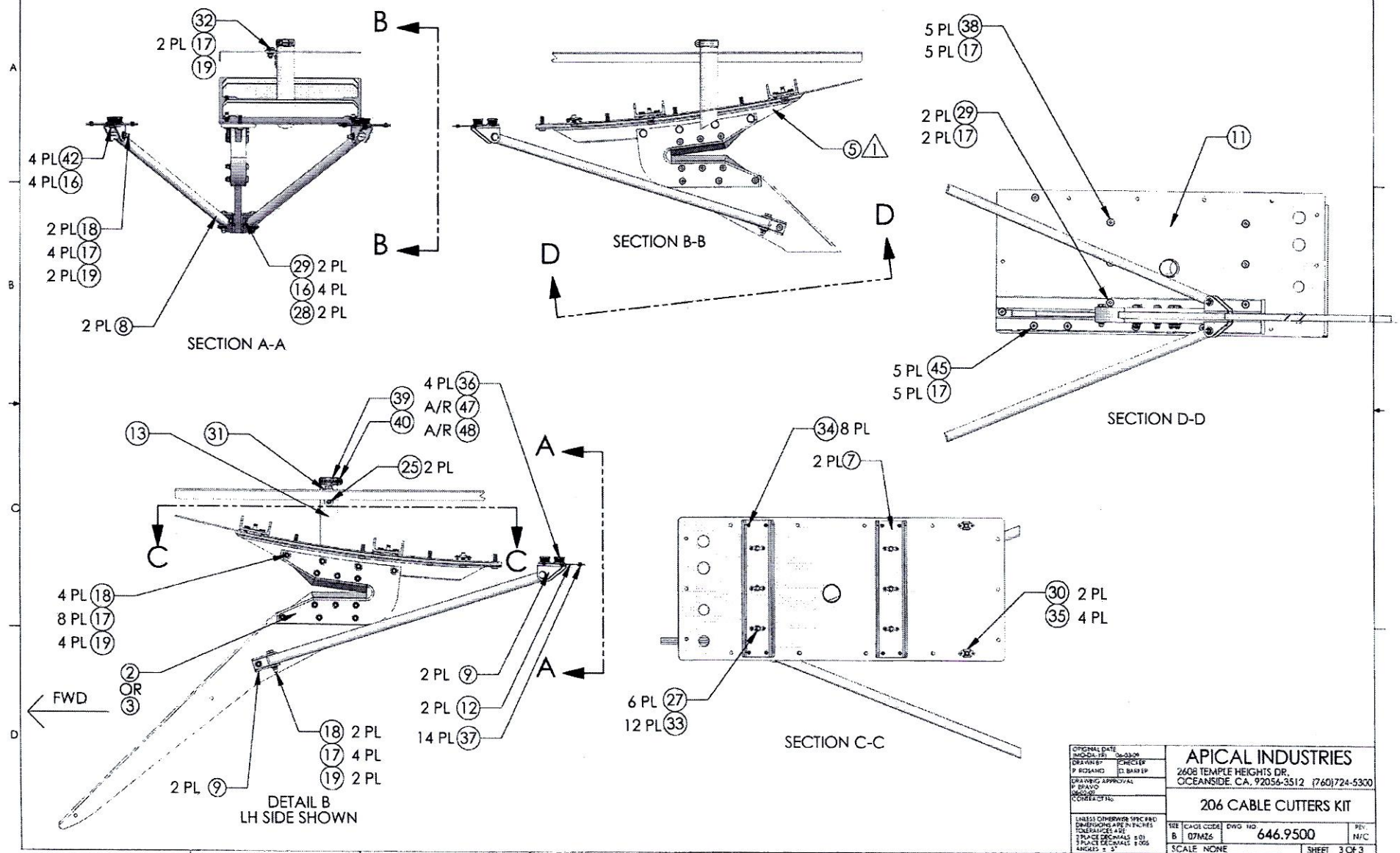
WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	☐ No Re-verification	☐ Pressure/Forced	☐ Temperature/Cure	☐ Power Loss/Surge	☐ Positioned Wrong				
Design ☐	☐ Operator	☐ Bending	☐ Set-up	☐ Folio/Program	☐ Outside Dimensions				
Doc/Data ☐	☐ Offset/Setup	☐ Centre Not Concentric	☐ BOM/Route	☐ Grain	☐ Over/Under tolerance				
Equip/Tooling ☐	☐ Supplier	☐ Cracks	☐ Broken/Damage/Defect	☐ Weld	☐ Part Incorrect				
Handling/Pre ☐	☐ Training	☐ Crimp/Kink/Ripple/Wave	☐ Inspection Incomplete/Unqualified	☐ Wrong Stock Pulled	☐ Part Lost/Missing				
Material ☐	☐ Use for Testing	☐ Cuffs	☐ Contamination	☐ Out of Sequence	☐ Part Moved				
Internal Transport ☐	☐ Poor Information	☐ Crushing	☐ Countersink	☐ Off-set	☐ Drawing				
Tribal Knowledge ☐	☐ Rushing	☐ Heat Treat	☐ Cut Too Short	☐ Mislabeled	☐ Finish				
LOA ☐	☐ Product Improvement	☐ Wave/Twist in Tube	☐ Instructions Incomplete/Unclear	☐ Fit/Function	☐ Misread				
Substation ☐	☐ Process Improvement	☐ Marks/Chatter	☐ Drill Holes	☐ Misaligned/off center	☐ Turning Sequence				
Past Expiry Date ☐	☐ Manufacturing Process	OTHER :							
Misidentified ☐	☐ Past Due								

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ORIGINAL DATE: 10-10-78 MODIFIED: 10-10-78 DRAWN BY: P. ROSAND CHECKED BY: J. BARBER DRAWING APPROVAL: W. BRADY PROJECT: 206 CORRECTIONS:		APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760) 724-5300	
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES ARE: 3 PLACE DECIMALS ± .01 2 PLACE DECIMALS ± .005 ANGLES ± 5°		206 CABLE CUTTERS KIT	
SEE: 10600000 B 07M26	DWG. NO. 646.9500	REV. N/C	SHEET 3 OF 3
SCALE: NONE			

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval 	
Description Work Order Deviation				Disposition					
								Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	

Root Cause				FAULT CATEGORY			
Environment ☐		No Re-verification ☐		Pressure/Forced ☐		Temperature/Cure ☐	
Design ☐		Operator ☐		Bending ☐		Set-up ☐	
Doc/Data ☐		Offset/Setup ☐		Centre Not Concentric ☐		BOM/Route ☐	
Equip/Tooling ☐		Supplier ☐		Cracks ☐		Broken/Damage/Defect ☐	
Handling/Pre ☐		Training ☐		Crimp/Kink/Ripple/Wave ☐		Inspection Incomplete/Unqualified ☐	
Material ☐		Use for Testing ☐		Cuffs ☐		Contamination ☐	
Internal Transport ☐		Poor Information ☐		Crushing ☐		Countersink ☐	
Tribal Knowledge ☐		Rushing ☐		Heat Treat ☐		Cut Too Short ☐	
LOA ☐		Product Improvement ☐		Wave/Twist in Tube ☐		Instructions Incomplete/Unclear ☐	
Substation ☐		Process Improvement ☐		Marks/Chatter ☐		Drill Holes ☐	
Past Expiry Date ☐		Manufacturing Process ☐		OTHER : ☐			
Misidentified ☐		Past Due ☐					

APICAL INDUSTRIES, INC.	ENGINEERING CHANGE NOTICE NO. 02729				SHEET 1 OF 3	
	DWG NO. 646.9500		REV: N/C	PREPARED BY S. HUFF	DATE: 12/23/09	EFFECT ON DWG ☐ INC. ☒ UNINC.
	DWG TITLE: 206 CABLE CUTTERS KIT					
	APPROVED BY:	ENGR <i>[Signature]</i>	MEG <i>[Signature]</i>	QC <i>[Signature]</i>	EFF: CURRENT ORDER	
TRANSACTION CODES (TC) A-ADD C-CREATE R-REVISE D-DELETE	REASON: HARDWARE REVISIONS FROM FIRST INSTALL					

REFERENCE ONLY

51	A	601.3155	8	8	BOLT	AN3-10A
50	A	601.3153	5	5	SCREW	MS24694S8
41	R	601.2893	43	43	SCREW	MS27039-0811
28	R	601.2973	54	54	LOCKNUT	MS21042-08
18	R	601.2826	8	8	BOLT	AN3-11A
16	R	601.2764	127	127	WASHER	NAS1149FN832P
			9502	9501		
F/N	TC	PART NUMBER	QTY		DESCRIPTION	MATERIAL/SPECIFICATION
DOCUMENTS EFFECTED:						CHANGE CATEGORY
						DER REVIEW REQUIRED
						☐ MDL ☒ INSTALL INSTRUC ☒ ICA ☐ FMS ☒ BOM ☐ MAJOR ☒ MINOR ☐ YES ☒ NO

APICAL INDUSTRIES, INC.	ENGINEERING CHANGE NOTICE NO. 02736			SHEET 1 OF 1	
	DWG NO. 646.9500	REV: N/C	PREPARED BY S. HUFF	DATE: 01/06/10	EFFECT ON DWG ☐ INC. ☒ UNINC.
	DWG TITLE: 206 CABLE CUTTERS KIT				
APPROVED BY: ENGR <i>[Signature]</i>		MFG <i>[Signature]</i>	QC <i>[Signature]</i>	EFF: CURRENT ORDER	
TRANSACTION CODES (TC) A-ADD C-CREATE R-REVISE D-DELETE		REASON: CORRECTED PARTS LIST ERRORS			

REFERENCE ONLY

17	R	601.1607	62	62	WASHER	NAS1149F0332P	
16	R	601.2764	111	111	WASHER	NAS1149FN832P	
			9502	9501			
F/N	TC	PART NUMBER	QTY	DESCRIPTION		MATERIAL/SPECIFICATION	
DOCUMENTS EFFECTED:						CHANGE CATEGORY	DER REVIEW REQUIRED
☐ MDL ☒ INSTALL INSTRUC ☒ ICA ☐ FMS ☒ BOM						☐ MAJOR ☒ MINOR	☐ YES ☒ NO

Work Order ID 162460

Tuesday, June 06, 2017 4:57:33 PM

162460

Page 1

Item ID: 646.9502

Accept

N900040100

Setup Start

NS1

Revision ID:

Stop

NS2

Item Name: 206A/B/L-Series Cable Cutter System, Low

Start Date: 6/8/2017 Start Qty: 1.00

1

Cust Item ID:

Required Date: 6/21/2017 Req'd Qty: 1.00

1

Customer:

Reference:

Run Start

NR1

Approvals:

Process Plan:

Date:

Tooling:

Date:

Stop

NR2

QC:

Date:

SPC (Y/N):

Date:

Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Tool ID

Tool #

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

Draw Nbr

Revision Nbr

646.9500

N/C

AUG 03 2017

100

Document Control

0.00

100

DOCUMENT CONTROL

DC

Memo

0.00

Doc.Control -USB or Paperwork

Photocopy bluefile & type labels per PPP 646.9502

DAS
5
9-89

AUG 08 2017

110

Pick Kit

0.00

110

Packaging

Memo

0.00

Packaging

120

QC4- 100% Inspect kits for completeness

0.00

120

QC

Memo

0.03

Quality Control

United States Of America
Department of Transportation - Federal Aviation Administration
Supplemental Type Certificate

Number SR02271LA

This Certificate issued to

Apical Industries, Inc. dba Dart Aerospace
3030 Enterprise Court, Suite A
Vista, California 92081

certifies that the change in the type design for the following product with the limitations and conditions therefor as specified herein meets the airworthiness requirements of Part 27 of the Federal Aviation Regulations.*
*Certification basis is set forth in Type Certificate Data Sheet.

Original Product Type Certificate Number:

H2SW

Make:

Bell

Model:

206A, B, L, L-1, L-3, L-4

Description of Type Design Change: Installation of Apical Industries, Inc. Cable Cutters Kits in accordance with FAA approved Apical Industries, Inc. Master Document List MD206-21, Revision A, dated November 10, 2009, or later FAA approved revision.

Limitations and Conditions: This approval requires the inspections and overhaul schedules to be performed as mandated by Apical Industries, Inc.'s Instructions for Continued Airworthiness, ICA206-21, Revision N/C, dated July 16, 2009, or later FAA accepted revision.

This installation should not be incorporated in any aircraft unless it is determined that the interrelationship between this installation and any previously approved configuration will not introduce any adverse effect upon the airworthiness of the aircraft. If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of this permission.

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of application: May 14, 2009

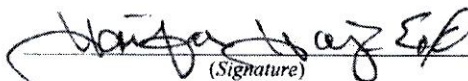
Date issued: August 7, 2014

Date of issuance: December 02, 2009

Date amended:

By direction of the Administrator




(Signature)

Haifa Haj-Eid
Supervisor, Technical and Administrative
Support Staff
Los Angeles Aircraft Certification Office

(Title)

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.